Figure 1
(Prior Art)

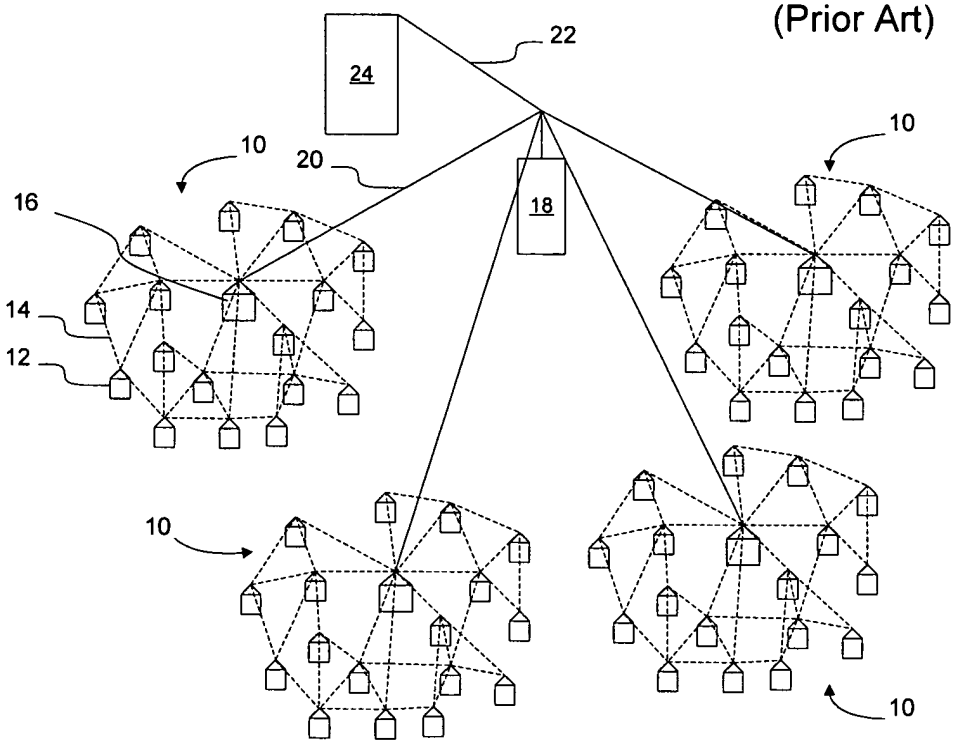


Figure 2

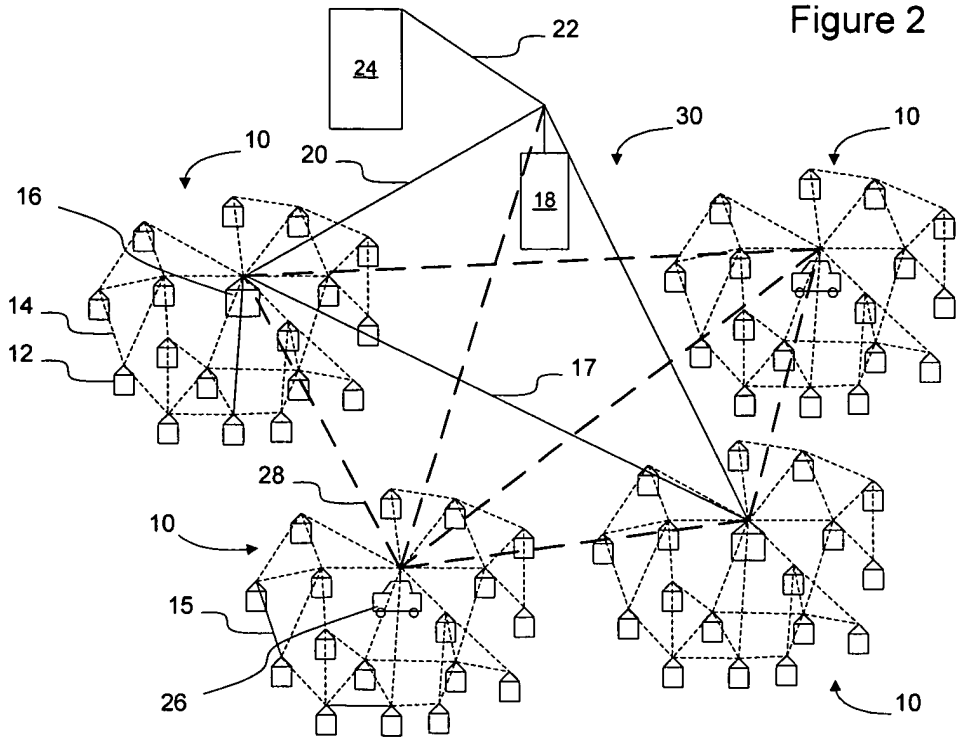


Figure 3

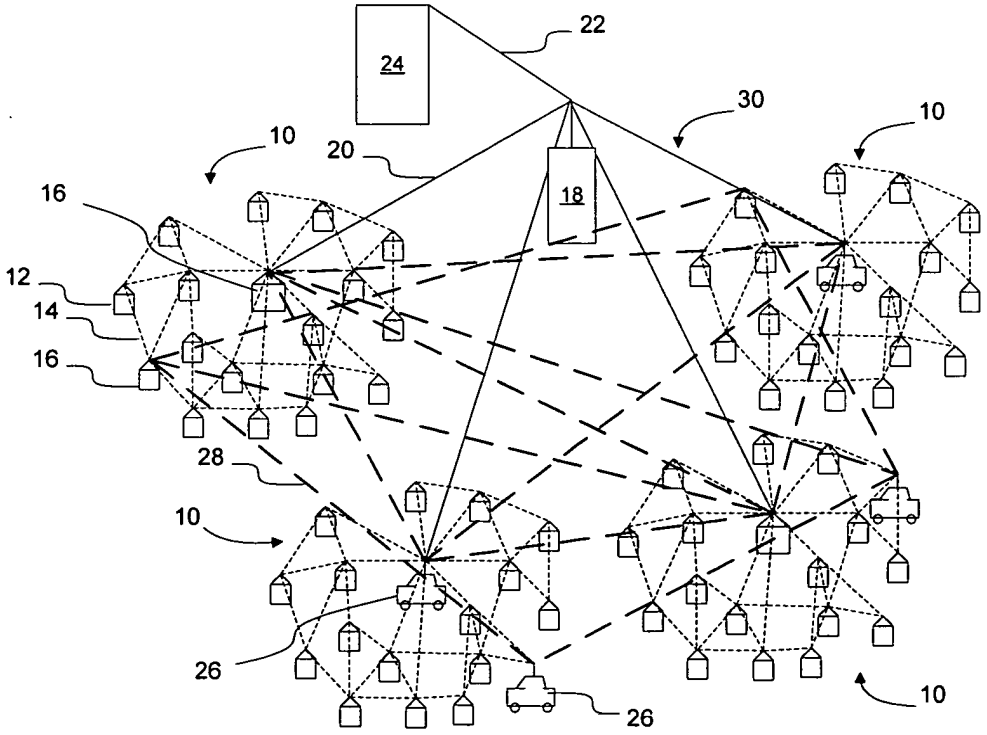


Figure 4

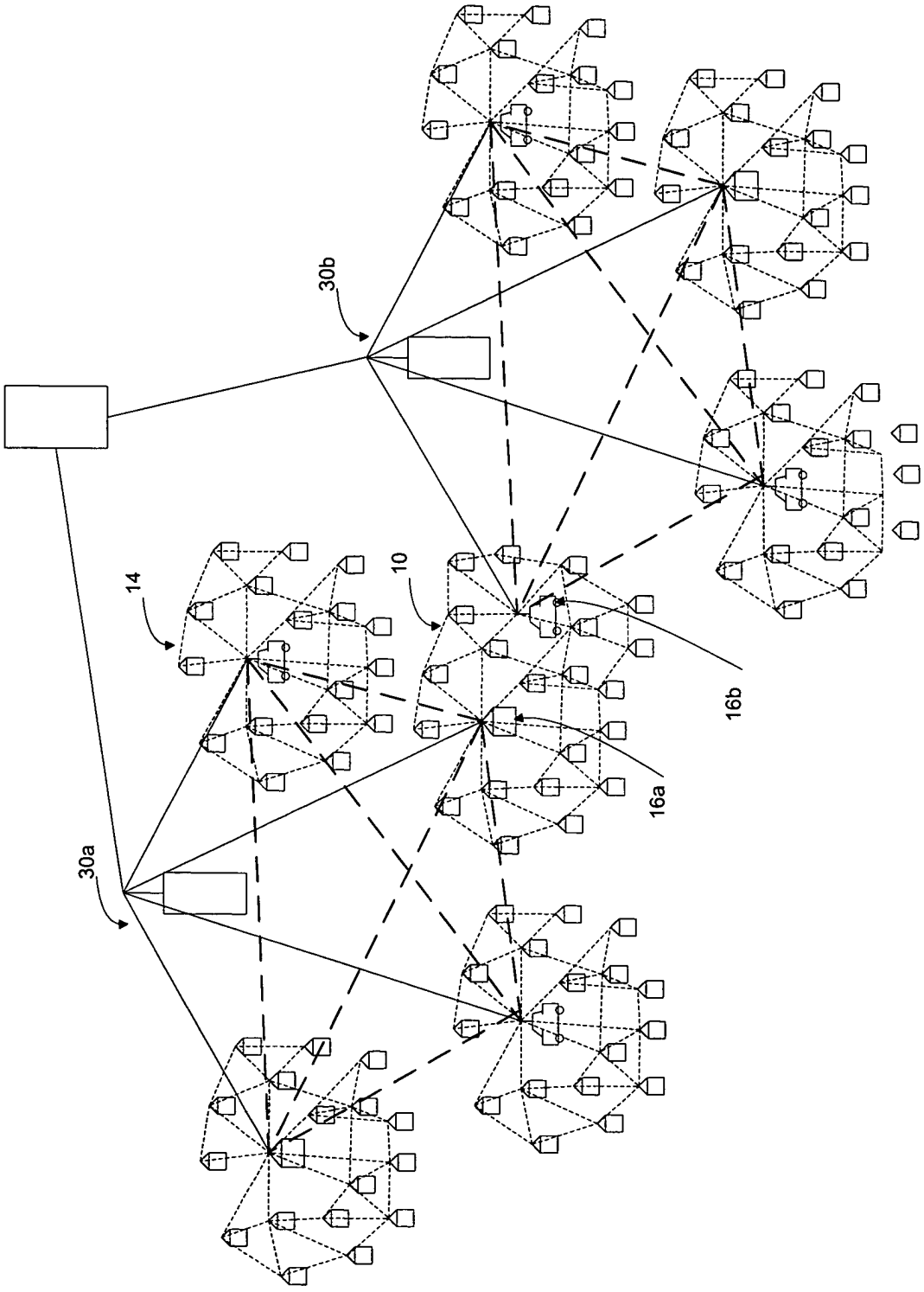


Figure 5

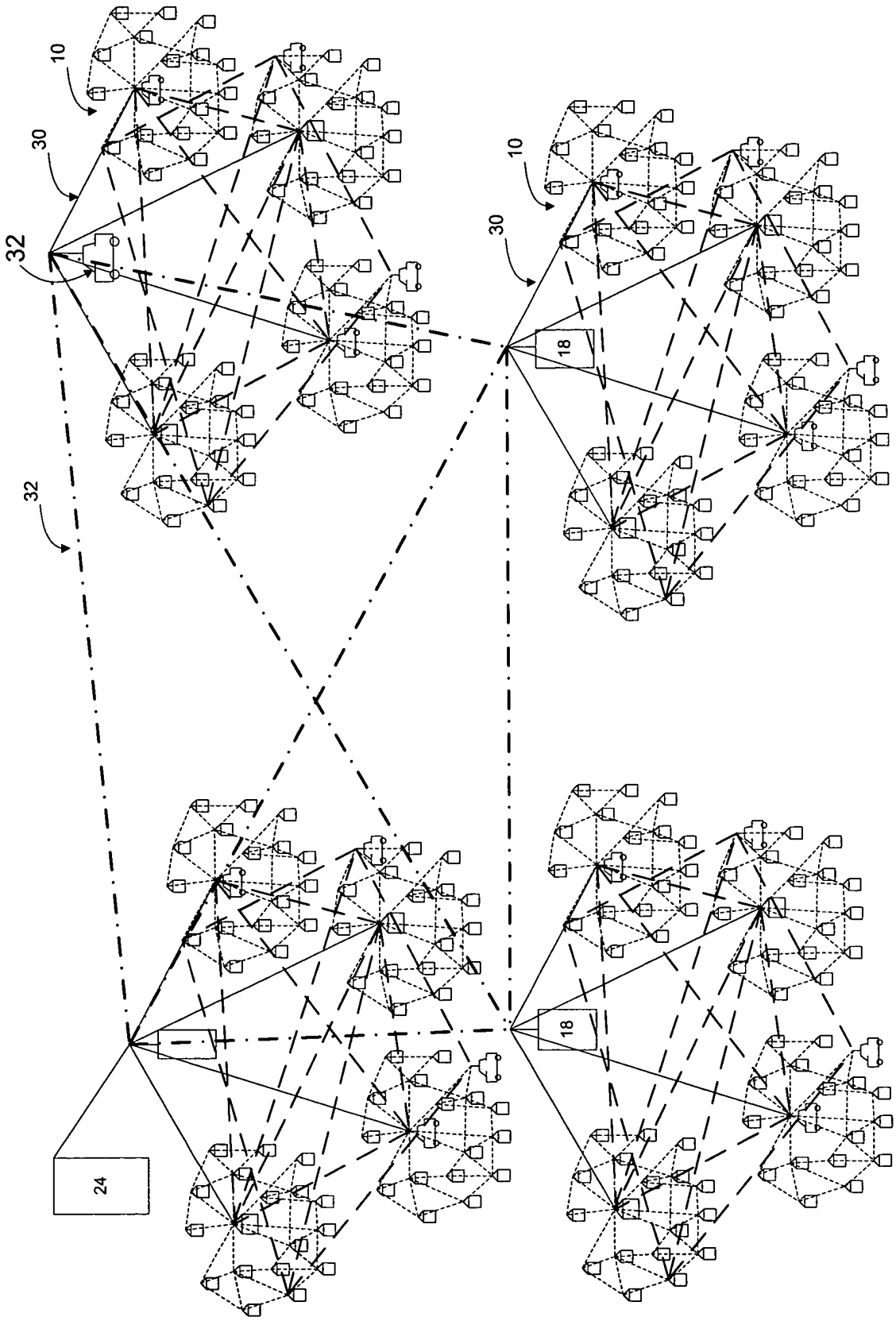


Figure 6

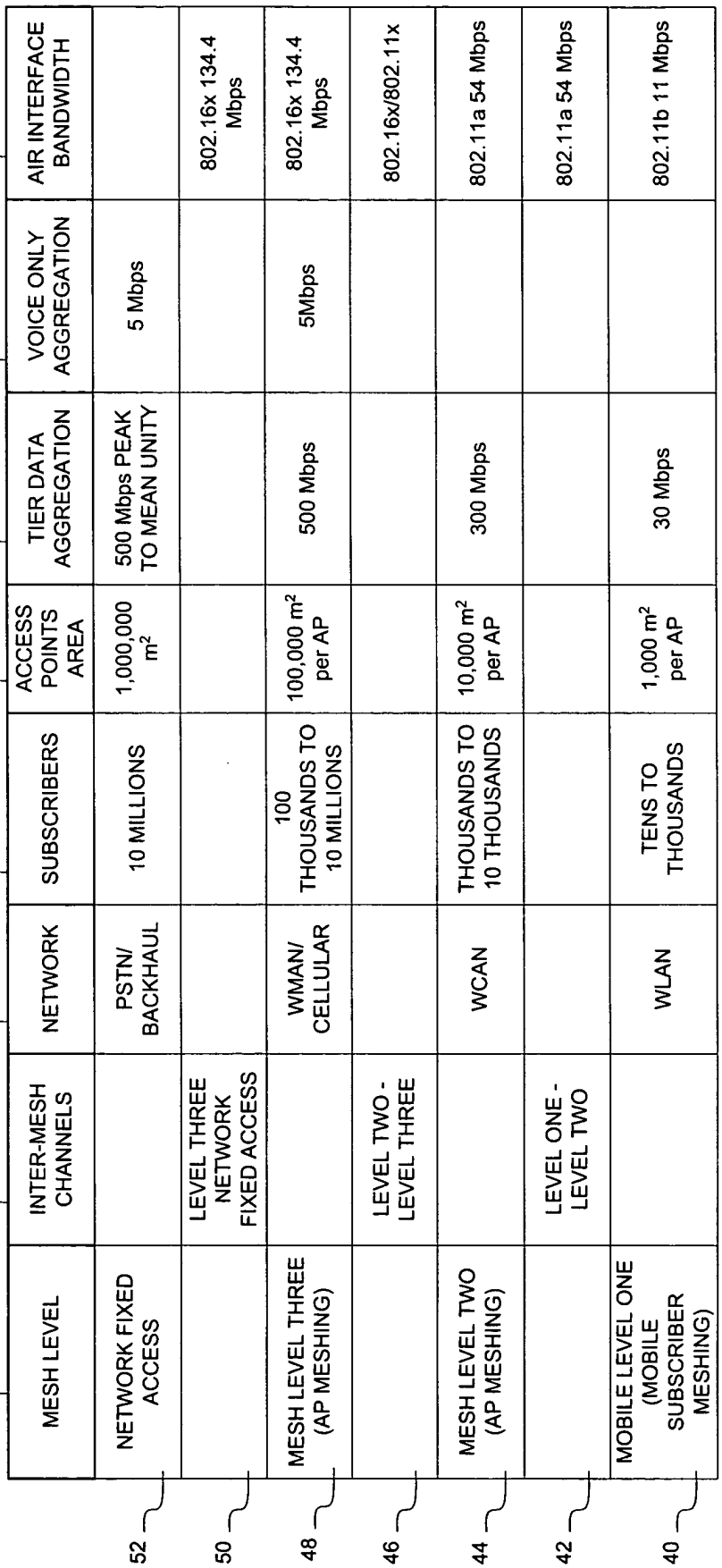

54
56
58
60
62
64
66
68
MESH LEVEL
INTER-MESH CHANNELS
NETWORK
SUBSCRIBERS
ACCESS POINTS AREA
TIER DATA AGGREGATION
VOICE ONLY AGGREGATION
AIR INTERFACE BANDWIDTH
52
NETWORK FIXED ACCESS
PSTN/ BACKHAUL
10 MILLIONS
1,000,000 m2
500 Mbps PEAK TO MEAN UNITY
5 Mbps
50
LEVEL THREE NETWORK FIXED ACCESS
802.16x 134.4 Mbps
48
MESH LEVEL THREE (AP MESHING)
WMAN/ CELLULAR
100 THOUSANDS TO 10 MILLIONS
100,000 m2 per AP
500 Mbps
5Mbps
802.16x 134.4 Mbps
46
LEVEL TWO - LEVEL THREE
802.16x/802.11x
44
MESH LEVEL TWO (AP MESHING)
WCAN
THOUSANDS TO 10 THOUSANDS
10,000 m2 per AP
300 Mbps
802.11a 54 Mbps
42
LEVEL ONE - LEVEL TWO
802.11a 54 Mbps
40
MOBILE LEVEL ONE (MOBILE SUBSCRIBER MESHING)
WLAN
TENS TO THOUSANDS
1,000 m2 per AP
30 Mbps
802.11b 11 Mbps

Figure 7

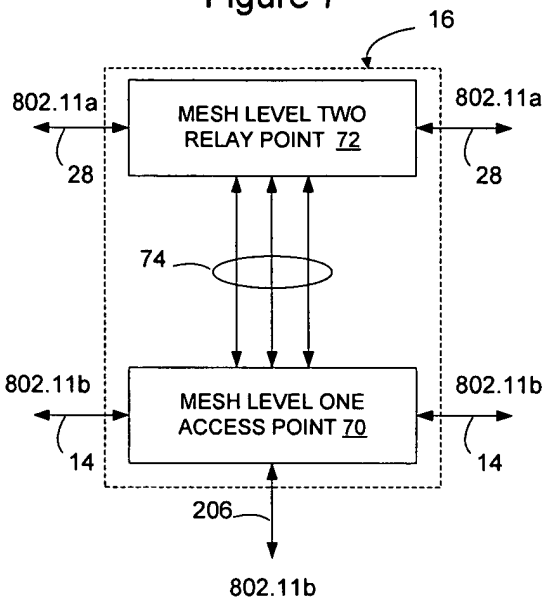


Figure 8

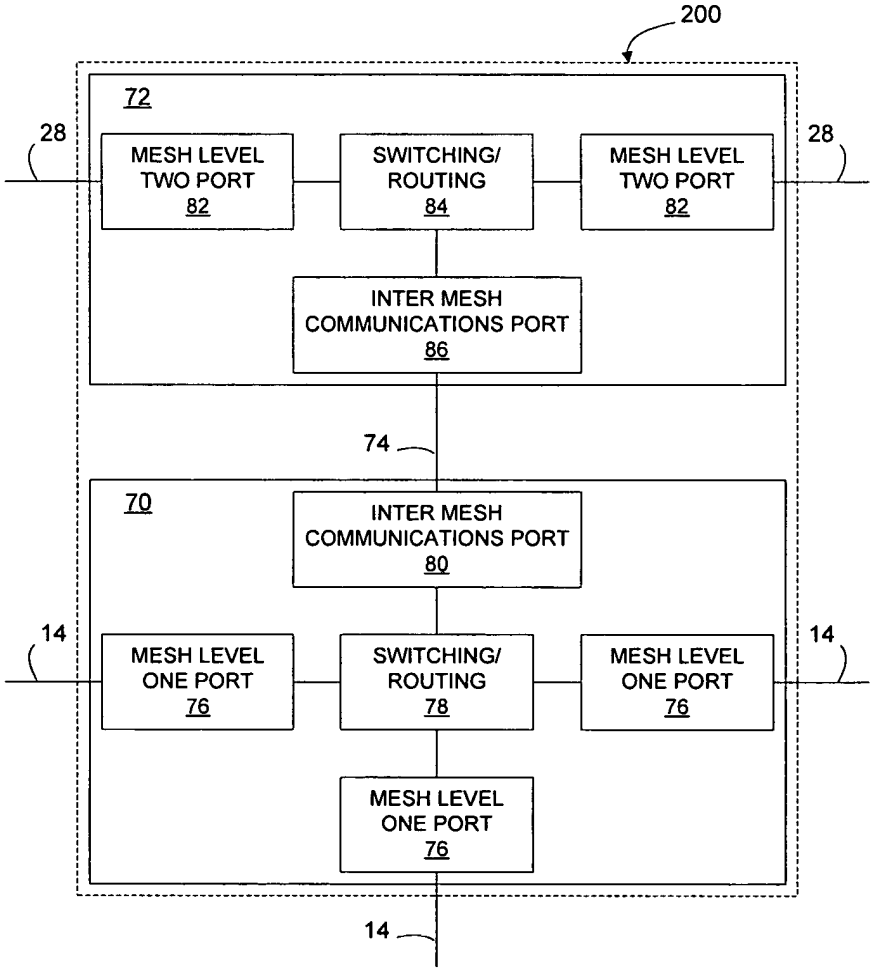


Figure 9

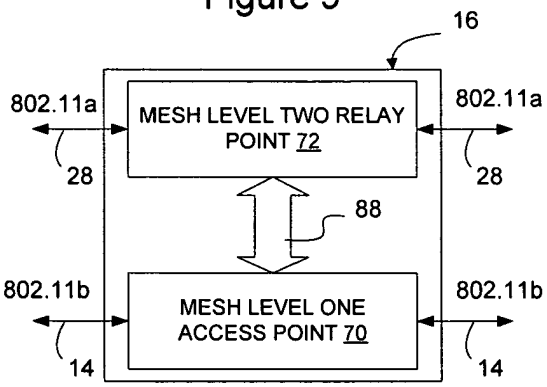


Figure 10

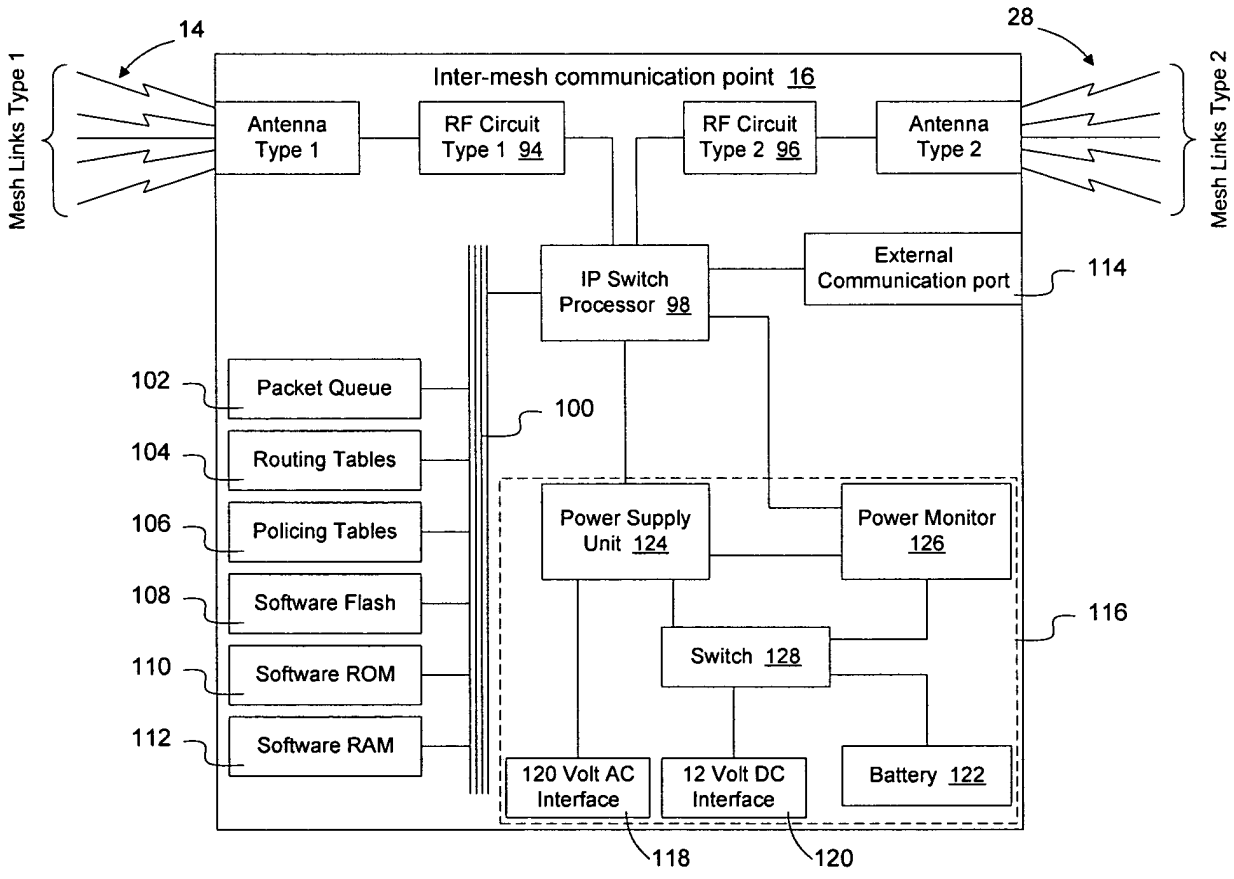
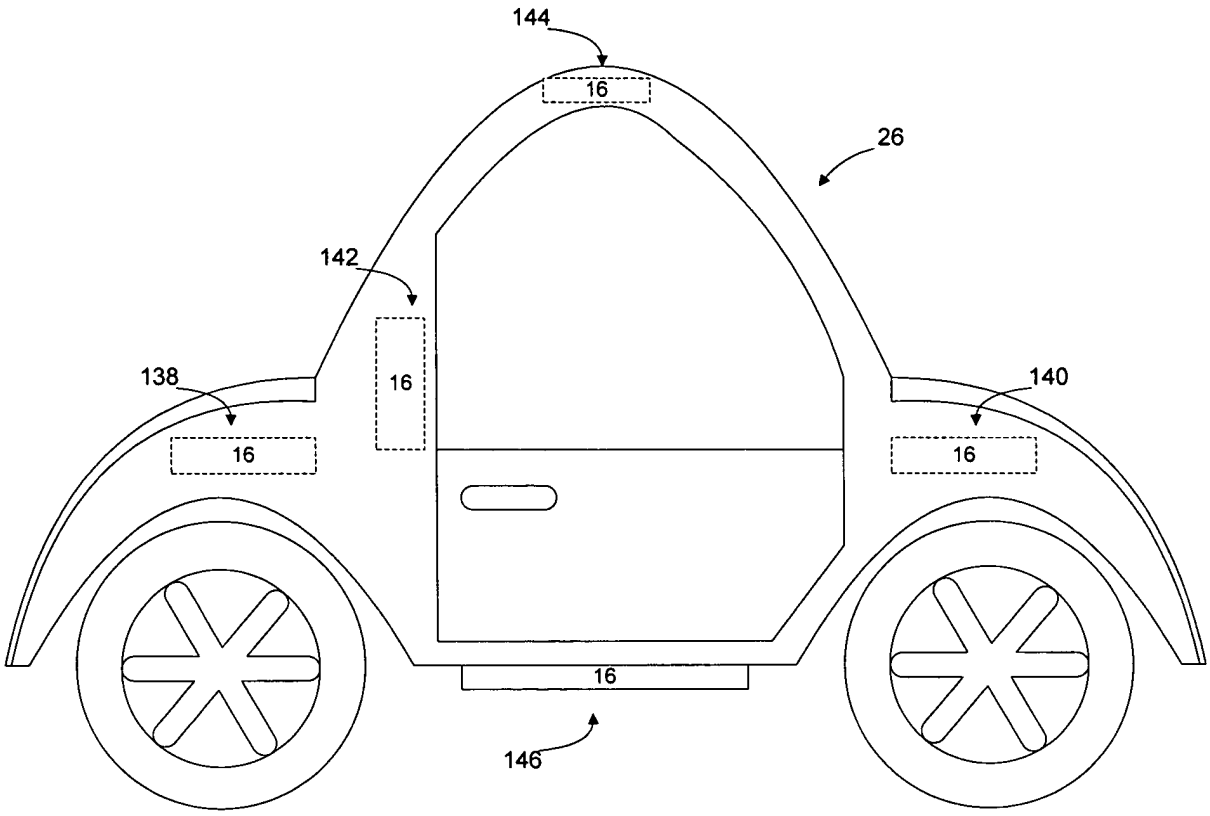


Figure 11



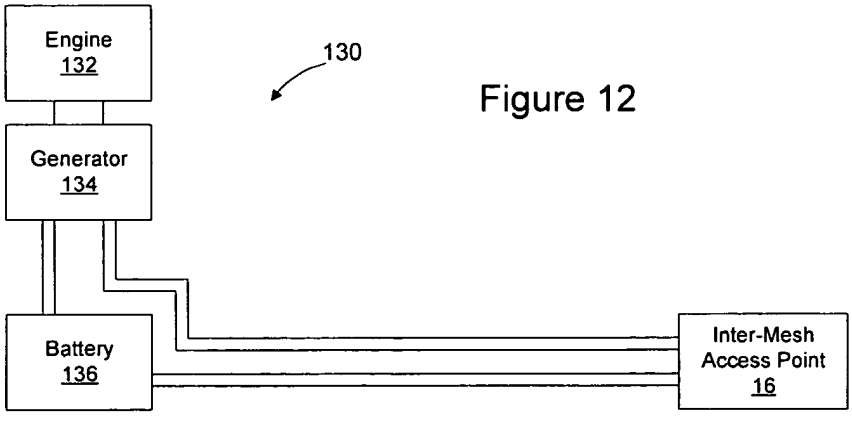


Figure 12